

IN THE CLAIMS:

Please enter the following amended claims:

1. (Twice Amended) A system for the generation of at least one outgoing real-time digital control signal based on at least one incoming control signal, the system comprising:

an incoming control signal interface adapted to receive the at least one incoming control signal;

at least one control signal generator adapted to generate the at least one outgoing real-time digital control signal based on the at least one incoming control signal, wherein said at least one control signal generator is selected from the group consisting of:

a low frequency oscillator, and

a transient generator;

an outgoing control signal interface adapted to communicate the generated at least one outgoing real-time digital control signal; and

wherein the at least one incoming control signal is used to control events and parameters associated with the at least one control signal generator.

2. (Twice Amended) A method for the generation of at least one outgoing real-time digital control signal based on at least one incoming control signal, the method comprising:

receiving the at least one incoming control signal;

controlling events and parameters associated with at least one control signal generator using the at least one incoming control signal;

generating the at least one outgoing real-time digital control signal utilizing the at least one control signal generator, wherein the at least one control signal generator is selected from the group consisting of:

a low frequency oscillator, and

a transient generator

communicating the generated at least one outgoing real-time digital control signal to an external system via an outgoing control signal interface.

3. The system of claim 1 wherein said at least one outgoing real-time digital control signal is in the form of a MIDI message.
4. The method of claim 2 wherein said at least one outgoing real-time digital control signal is in the form of a MIDI message.
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7. The system of claim 1 wherein the at least one control signal generator is a transient generator comprising an envelope generator with at least one parameter controlled by the at least one incoming control signal.
8. The system of claim 1 wherein the at least one control signal generator is a transient generator comprising a ramp generator with at least one parameter controlled by the at least one incoming control signal.
9. The system of claim 1 wherein the at least one control signal generator is a transient generator comprising a slew limiter with at least one parameter controlled by the at least one incoming control signal.
10. The method of claim 2 wherein the at least one control signal generator is a transient generator comprising an envelope generator with at least one parameter controlled by the at least one incoming control signal.
11. The method of claim 2 wherein the at least one control signal generator is a transient generator comprising a ramp generator with at least one parameter controlled by the at least one incoming control signal.

12. The method of claim 2 wherein the at least one control signal generator is a transient generator comprising a slew limiter with at least one parameter controlled by the at least one incoming control signal.

13. The system of claim 3 wherein the at least one incoming control signal comprises MIDI messages.

14. The method of claim 4 wherein the at least one incoming control signal comprises MIDI messages.

15. (Twice Amended) A method for generating at least one outgoing digital control signal utilizing at least one control signal processor, the method comprising:
processing a first incoming real-time control signal;
processing a second incoming control signal;
generating the at least one outgoing digital control signal based upon a non-merging combination of the first incoming real-time control signal and the second incoming control signal; and
wherein the first incoming real-time control signal, the second incoming control signal, and the at least one outgoing digital control signal comprise MIDI messages.

16. Canceled
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18. The method of claim 15 wherein both the first incoming real-time control signal and the second incoming control signal comprise values, and wherein the control signal processor performs one operation selected from the group consisting of:

- multiplication of the values of the first and second incoming control signals;
- addition of the values of the first and second incoming control signals.

19. The method of claim 15 wherein a temporal sequence of the first and second incoming control signals is used to generate the at least one outgoing digital control signal.

20. (Once Amended) A method for processing an incoming real-time MIDI control signal, the method comprising:

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receiving the incoming real-time MIDI control signal;
generating an outgoing real-time MIDI control signal, wherein said generating is performed by one or more message conversion methods selected from the group consisting of:

- changing an incoming MIDI note number value to an outgoing MIDI continuous controller value
- changing an incoming MIDI note velocity value to an outgoing MIDI continuous controller value
- changing an incoming MIDI continuous controller value to an outgoing MIDI note value
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with scaling
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with offset
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with complementary magnitude

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- changing an incoming MIDI note number value to an outgoing MIDI note number value according to variably transposed intelligent harmony that is controlled by the incoming real-time MIDI control signal; and

communicating the generated outgoing real-time MIDI control signal to an external system via an outgoing control signal interface.
